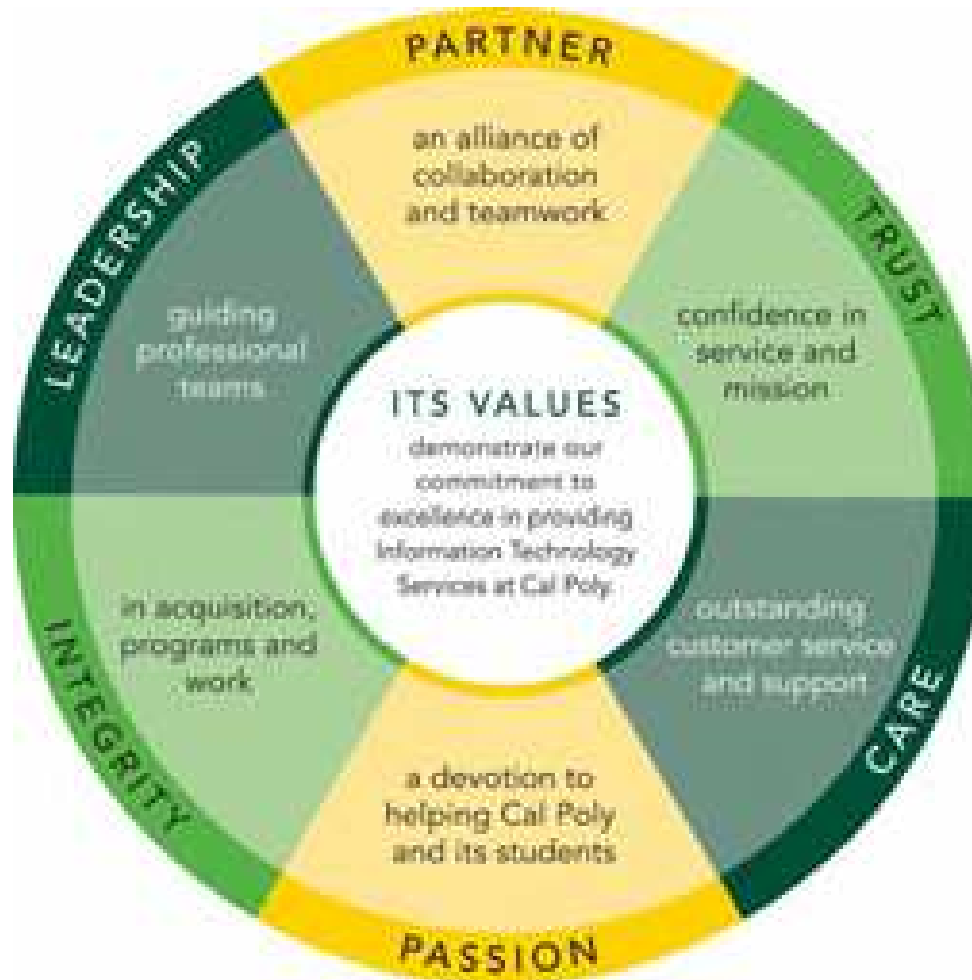




# CAL POLY

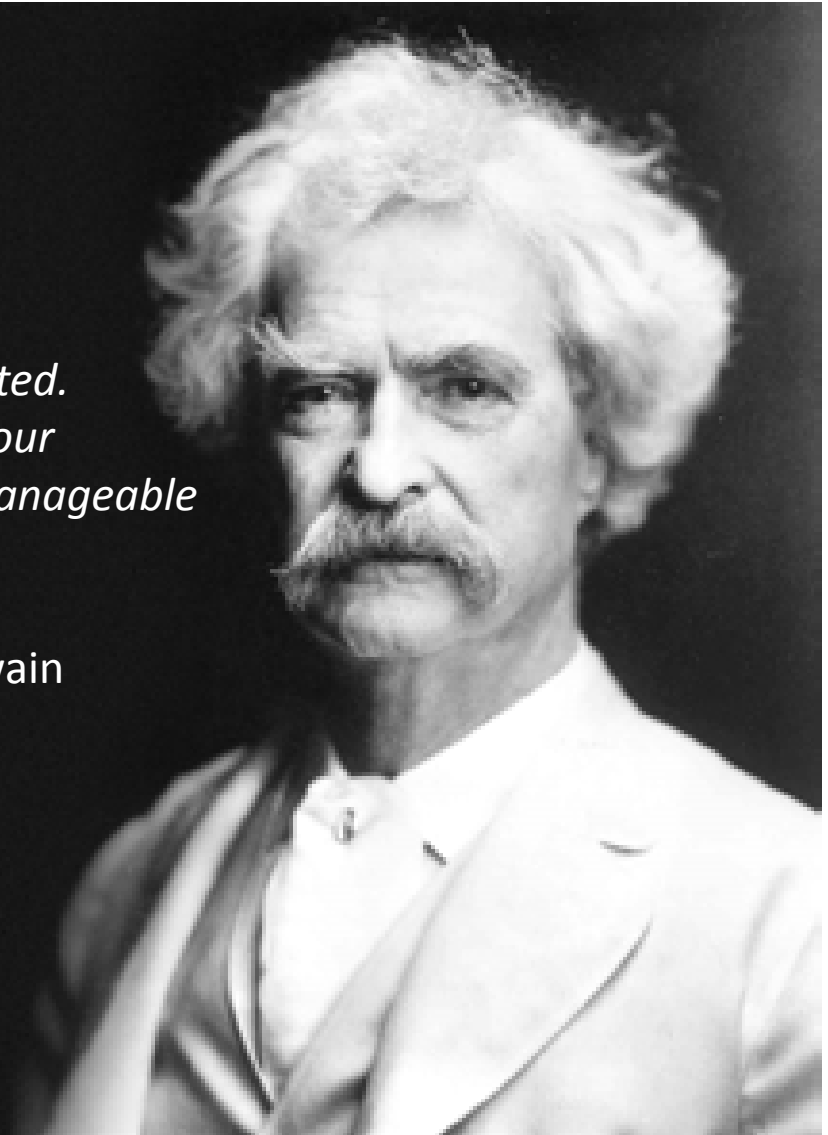
Project: California Cyber Training Complex

## Cal Poly ITS Core Values



*The secret of getting ahead is getting started.  
The secret of getting started is breaking your  
complex overwhelming tasks into small manageable  
tasks, and then starting on the first one.*

– Mark Twain



## Defining the Problem Set

- Cyber Crime and Terrorism are definitely linked together
- The training for Cyber Crime must be stepped up and include new ways to interact with non-traditional elements
- **Training has to match the pace of, or outpace the Bad Guy**
- **The CA National Guard has been tasked with an enhanced Cyber Protection mission**
- There are several Federal Training Programs – none in California
- **California needs an enhanced Cyber Crime training capability**
- The POTUS, Governor of California have called for Cyber sharing initiatives, working together and sharing

## What is the California Cyber Training Complex

- ***A Cooperative Project to Create a Unified California Sponsored Response to Cyber Crime***
- Establish a California Cyber Training Complex focused on:
  - Cyber Crime Forensics
  - Critical Infrastructure Cyber Education
  - Create a new generation training and support complex and range for Law Enforcement and other Agencies to develop, test and train, Cyber Crime tactics
- Involving the best of minds from the Academic Arena and State-of-the-Art classroom and education design and execution
- Create and sustain a Cyber Training Web Portal
- A new way of prosecuting the Cyber Mission

# Stakeholders

- Key Stakeholders
  - California Office of Emergency Services
  - California Military Department:
  - California Attorney Generals Office – E-Crime Division of DOJ
  - Cal Poly (San Luis Obispo) and the CSU system and other Academic Institutions
  - California Highway Patrol
  - **Local Law Enforcement Agencies**
- Invited
  - California Office of the CIO, CTO
  - Federal Agencies

# California Cyber Training Complex Components

## **California Cyber Training Complex**

1. Cyber Academic Facility
2. Cyber Training Range/Facility and Skunk Works
3. Cyber Crime Field Training Complex
4. Cyber Red Cell
5. Central Coast Forensics Center

## **Facilities**



## Potential to Transform Cyber Education & Training



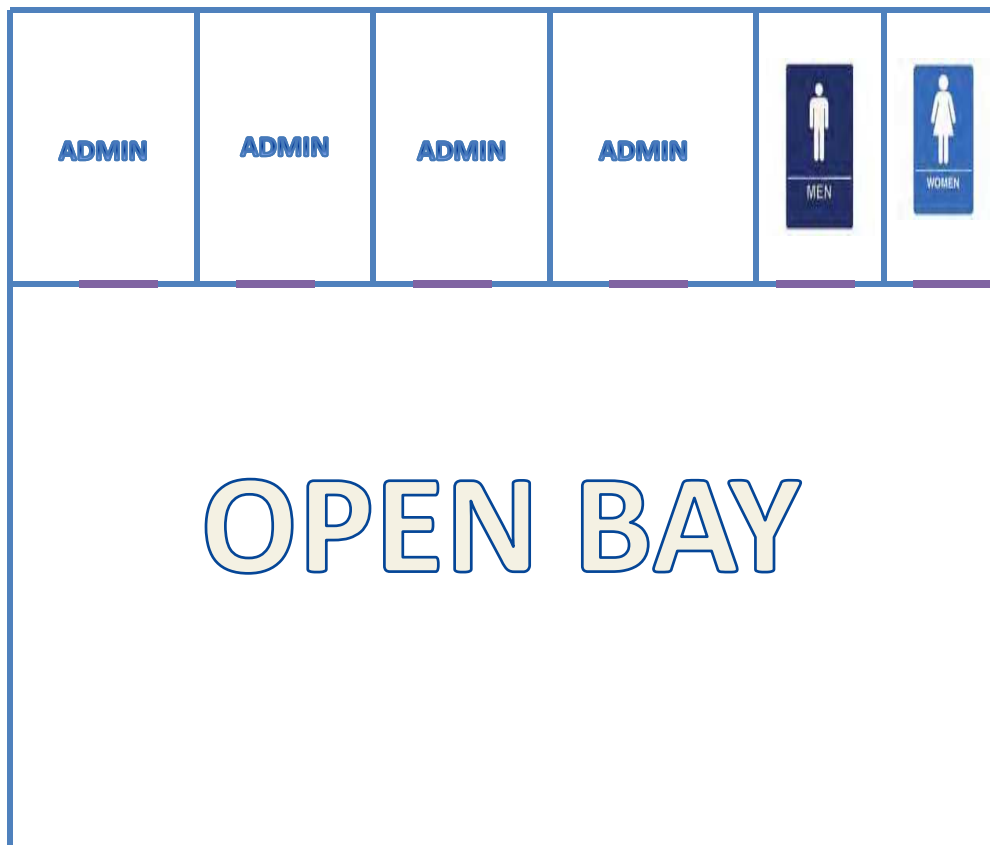


# The Golden Nugget

- Camp SLO sits on the 2<sup>nd</sup> largest Fiber Hub in the United States
- Build out of a true State supported Data Center would created unlimited bandwidth and storage for the training, services and support for the cyber mission



## Central Coast Forensics Lab - Facility



- A central location for Central Coast Law Enforcement Forensic Specialists to have access to:
  - Latest tools
  - Additional Technical support
  - Training
  - Central location
  - Superior Bandwidth
  - Protected Environment

## Creating State of the Art Forensics Lab



## Central Coast Forensics Lab



## Benefits to Cal Poly and SLO

- Campus Benefits
  - Having a One-of-a-kind Cybersecurity Center in our back yard
  - Opportunities for Professors
  - Opportunities for Students
  - 10 Month training cycle – 2 months for California Youth (Cal Poly Summer Camp?)
- New Partnerships with a solid State Agency
- **Cal Poly/SLO is now Designated as a Thought Leader in Cybersecurity at the State Level**
- Tie to Youth Competitions and training events
- Potential to generate local Cyber Businesses

## Cybersecurity & Local Community Support

- Indications and Warning for:
  - First Shooter
  - Hate Crime
  - Cyber Bullying
- Vulnerabilities Assessments for Law Enforcement
- Computer Network Defense Training
- California Youth Training, Education and Competitions
- Promoting SLO as a SAFE Cyber Community

# State of Cyber Crime Response Training

## **Current Cyber Forensics Training**

- CD
- Limited resources
- Vendor specific
- Constant demand for growth

## **Cal Poly Project**

- Accessible from any connected device
- Currency
- Prep for onsite or virtual lab
- ~~—Yahoo!~~ → Secure, Trusted, Dedicated
- Collaboration, Shared Experience
- Vetted Repository of Resources

# Opportunity for Cal Poly

## **Proof-of-Concept to support the future of Cyber Forensics**

- Ongoing Learn by Doing Education
- Direct Interface
- Feedback
- Cost Recoverable

## **California Cyber Forensics Learning Environment**



**CCFLE**



## Expected Results

- States are clamoring for the support of the National Guard to support the defense of Critical Infrastructures
- **Provide training for University/Campus Police Departments for Cyber effects**
- Rather than wait for a Federal mandate or support, California will set the National tone for a new era
- Further developed state, private and public partnerships, including a variety of industry pillars and leading security firms
- Attract and retain “best and brightest” security professionals for instruction, research and administration
- Focus on developing the near term support structure(people process and technology) capable of leading and managing in the Cybersecurity Industry

## Summary

- The World is changing dynamically our response needs to be as dynamic as the change
- State Strategy for Cyber response creates the requirement
- Precedence is already established for co-aligning Cyber Operations (CMD with Federal Agencies and Law Enforcement)
- Camp SLO sits on a National Treasure - and offers protection
- Co-Align with the University System to grow with an academic partner
- Legislature support to develop a plan and an future
- Answering the POTUS and Governor's call to do something rather than discuss the subject – ***Action instead of more words!***

ANY  
QUESTIONS  
?